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Czech J. Food Sci.

**Synytsya A., opíková
J., Brus J.**

^{13}C CP/MAS NMR spectra of pectins: a peak-fitting analysis in the C-6 region

Czech J. Food Sci., 21 (2003): 1-12

^{13}C CP/MAS NMR spectra of pectin samples were measured and interpreted. The influence of methylesterification and O-acetylation on chemical shifts of pectin carbons was studied using model pectate, pectinates, and their acetylated derivatives. The spectra were analysed also by peak fitting in C-6 region to obtain the values of methylation (DM), amidation (DAm) and acetylation (DAc), degrees. The results were in a good agreement with both convenient methods (photometry, elemental analysis) and the NMR method based on the relative areas of OCH_3 (DM) and CH_3 (DAc) resonances.

Keywords:

^{13}C CP/MAS NMR; pectins; peak fitting;

degrees of methylation (DM); degrees of acetylation (DAc)

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